

University to save \$1.3 M in credit card fees

Richard Cairney

The university will be able to put an additional \$1.3 million into academic priorities by discontinuing the use of credit cards as a form of credit-based tuition payment, if a budget proposal is approved by the board of governors today.

For more information on the board's budget decision visit www.expressnews.ualberta.ca.

Phyllis Clark, the university's vice-president (finance and administration), says the move is a more responsible use of public funds and tuition, giving the university more resources to serve students.

"We are taking \$1.3 million and putting it into the university's operating budget, into academic priorities such as putting professors in classrooms and information technology initiatives, as compared to paying it to banks," said Clark.

Students are upset about the decision, citing a lack of consultation on the matter.

The issue was first raised with students last year. Discussions with student leaders began in the fall of 2007 via the budget advisory process. As part of the governance process leading to the approval of the budget, this issue was discussed at various meetings in November and December 2007 and again in early March 2008.

In addition, student leaders attended meetings organized by financial services to discuss this issue in January and February 2008.

Students who paid tuition fees with credit cards last semester will be invited by the university to participate in an online survey designed to determine their awareness of the various payment options and help develop communication strategies to manage this change.

Clark added that the U of A is joining other universities in Canada that don't accept credit cards for tuition payments, including the universities of Toronto, British Columbia, Victoria, Manitoba, McGill and Ottawa.

New funding supports diverse research projects

Michael Brown

From identifying fossilized fish to protecting pipelines that transport fossil fuels, seven university researchers have laid claim to nearly \$1 million of research infrastructure money, thanks to the Canadian Foundation for Innovation's latest round of funding awards.

Alison Murray, fish paleontologist in the Department of Biological Sciences, was the recipient of \$117,030 for her research into tropical freshwater fossil fish from the Cenozoic era, which is 65 million years ago to present.

"I look at the bones and I compare them to recent fish as well," said Murray of her research into fish evolution. "Basically, my work involves trying to determine the relationships of different fish."

The highlights of Murray's research include the identification of two species of snakehead fish, the *Parachanna fayumensis* from the Eocene epoch of Egypt and *Anchichanna kuldanensis* from the Eocene epoch of Pakistan.

"Because these fossils and the living snakeheads are freshwater fish, the fossils show there was some sort of land and freshwater connection between Asia and Africa in the Eocene epoch, (about 34-55 million years ago)," said Murray. "Palaeogeological maps do not show a land connection at that time, but the mammal faunas also

indicate an Eocene connection.

"What the connection is, is still not firmly known."

Murray says the money will mainly go towards storage facilities for the department as well as a micro-computed tomography (micro-CT) scanner designed to take a non-destructive look inside specimens to see the internal structures and examine the bones.

"There are other paleontologists in the department that have received grants from CFI," said Murray. "This one will build on what they've already received and top off everything."

André McDonald, an assistant professor in the Department of Mechanical Engineering was awarded \$133,096 for his work with thermal-sprayed nanostructured coatings for equipment in the natural-resource sector.

Borrowing technology first used in the biomedical industry, McDonald is looking at ways to enhance the life of pumps and short pipelines using nanostructured types of coatings.

"For this application in question we're trying to develop nanostructured coatings to provide a combination of protection against both erosion and corrosion," said McDonald. "Typically, it's rare that protective coatings will give you more than one surface protection."

Specifically, McDonald's team will be focused on nanostructured titania coatings, which are a form



Jennifer Fader (left, as Andrew Aguecheek) and Ryan Parker (as Sir Toby Belch) hatch a scheme in Studio Theatre's production of Shakespeare's *Twelfth Night*. The play runs until April 5 at the Timms Centre for the Arts. See page 2 for a chance to win tickets.

of ceramic. It is a homogenous type of coating but inside the coating there is a bimodal microstructure made up of dispersed nano particles.

"As a result of having these molten nanostructured particles, five micrometres in diameter dispersed throughout the coating. If you get

any sort of cracking in the surface area of the coating, these particles actually arrest the crack and stop it from spreading throughout the entire coating microstructure," said McDonald.

"We understand the application and we want to explore it in oil

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Steacie award for chemistry prof

Michael Brown

A University of Alberta organic chemist has won one of the Natural Sciences and Engineering Research Council of Canada E.W.R. Steacie Memorial Fellowships for his work into making more efficient synthetic chemistry.

Dennis Hall, professor in the Faculty of Science, is the latest in a string of researchers to win this prestigious award, considered one of Canada's premier science and

engineering research awards.

Hall's work focuses on a family of compounds, known as boronic acids and esters, as part of a diverse research program with potential applications ranging from medicine to industrial processes.

Boronic acids, composed of the semi-metallic element boron, were neglected for a long time because other compounds could perform many of the same functions, says Hall. However, the relatively low toxicity of boronic acid has brought it into favour as chemists

search for more environmentally-friendly approaches to their craft.

"I was attracted by the fact that (the compounds) are so versatile," he said. "They're molecular jacks of all trades."

Working in a highly competitive field, Hall has discovered significant new uses for these compounds while also making major theoretical contributions. One of Hall's recent discoveries is that certain boronic acids are particularly good catalysts for making amides (important compounds whose

functions include bonding peptides together, which, in turn, form proteins). Amides appear in more than a quarter of all pharmaceutical drugs, but traditional methods to manufacture them are complicated and generate a lot of waste, some of it toxic. Hall's work helps further efforts of making chemistry more environmentally friendly by increasing the efficiency of chemical processes and producing less waste.

"It is really worthwhile to develop the same reaction as other

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New funding supports diverse research projects

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and gas, but we lack a fundamental understanding of why the coating is exhibiting such interesting properties.

"This is blowing our minds right now."

Bradley Kerr, assistant professor in the Department of Anesthesiology and Pain Medicine, received \$124,842 for his work into the causes of chronic pain that develop after injury or disease in the central nervous system, known as central neuropathic pain. Two conditions in which central neuropathic pain commonly arises are after spinal cord injuries and as a result of the autoimmune disease multiple sclerosis.

"The CFI grant will provide the necessary infrastructure to carry out studies that will examine how the non-neuronal cells of the nervous system, known as glial cells, respond to injury or disease states and influence pain," said Kerr. "These glial cells and the proteins they express may be important targets for future therapies aimed at relieving chronic pain associated with these disorders."

Christopher Cairo, an assistant professor in the Department of Chemistry, received the lion's share, \$222,884, to fund a single molecule fluorescence laboratory for probing plasma membrane enzymology in single cells using chemical and spectroscopic tools.

"Cell-surface receptors control



Alison Murray, holding a 95-million-year-old fish fossil discovered in Morocco (and show in inset photo) has received CFI funding for her research into the evolution of fish.

important events like inflammation and immune response to disease, and we are studying what role carbohydrate structures play in regulating receptor function," said Cairo. "The systems we're working on have implications for autoimmune diseases, cancer, and inflammation."

Catherine Chan, a professor of physiology and nutrition science whose primary research revolves around how the expression of protein in obese subjects may lead to insufficient insulin secretion, received \$125,000 to put towards state-of-the-art imaging equipment that will allow her team to take

pictures of metabolic processes going on inside of living animals.

David Nobes, an assistant professor in the Department of Mechanical Engineering, received \$113,319 for investing in optical instrumentation for the investigation of industrial flows related to oilsand and energy production.

Finally, Kirst King-Jones, an assistant professor in the Department of Biological Sciences, received \$137,930 to help in his studies of the gene networks that control lipid

and cholesterol metabolism in fruit flies.

The Canada Foundation for Innovation is an independent corporation created by the Government of Canada to fund research infrastructure. Since its creation in 1997, the CFI has committed \$3.8 billion in support of 5,585 projects at 128 research institutions in 64 municipalities across Canada. ■

Steacie award for chemistry prof

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elements with boron because it is less toxic," he said.

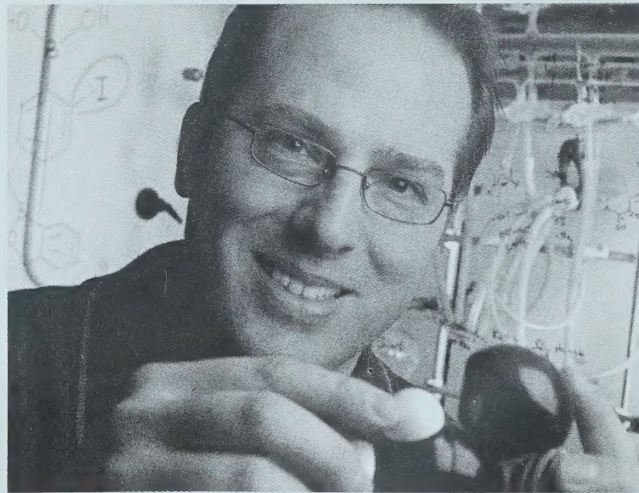
Hall's method, in contrast to more toxic ones, can be performed easily at room temperature and leaves only water as a byproduct. It's such a simple process that he speculates it could even yield clues about the origins of life by showing how amino acids first assembled to become proteins in the presence of boric acid.

Hall also makes extensive use of a powerful technique called combinatorial chemistry, which uses tools and processes that make it possible to create and evaluate libraries of related molecules, rather than designing them one by one through trial and error. The pharmaceutical industry makes use of this

approach in drug development.

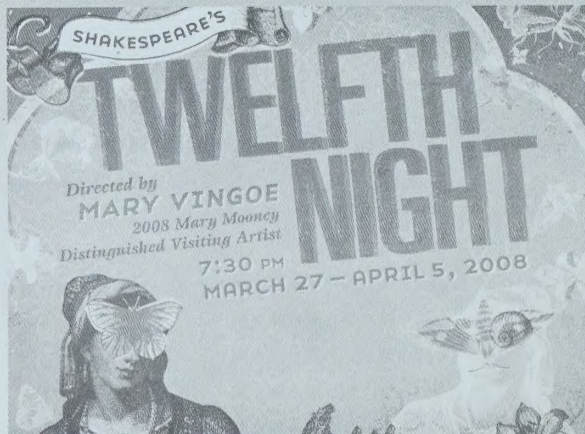
Announced March 17 in Ottawa, winners receive additional funding to support their research, and their universities receive a salary contribution to fund a replacement for the fellow's teaching and administrative duties, thus allowing the winners to focus on their research for two years.

"Our NSERC Steacie winners have delivered results that have earned them a well-deserved international reputation for highly original and influential research in their fields," said Suzanne Fortier, president of NSERC. "These fellowships will allow the winners to devote their full time and attention to their work, in effect supercharging their research while freeing them from their other duties." ■



Dennis Hall has been named one of six E.W.R. Steacie Memorial Fellowship award recipients.

Are You a Winner?



Last week we begged for a muse of fire. And readers begged for clarity. Apparently our quest for the line with the most greatness in Shakespeare's *Twelfth Night* ("In my stars I am above thee; but be not afraid of greatness: some are born great, some achieve greatness, and some have greatness thrust upon 'em.") was a little too much.

So here we are, stuck with two double passes to Studio Theatre's production of *Twelfth Night*, playing at

the Timms Centre for the Arts until April 5.

To win a pair of tickets, send an e-mail to folio@exr.ualberta.ca no later than 12 p.m. Tuesday, April 1, telling us the name of the fool in Shakespeare's *As You Like It*.

Congratulations to Nikki Van Dusen and Kelly Sears, who have won tickets to the April 20 Slide to Freedom Concert, featuring Doug Cox and Salil Bhatt with Ramkumar Mishra. ■

Clamping down on hepatitis B

Connie Bryson

Hepatitis B is the world's most prevalent serious liver infection. About 2 billion people around the world have been infected, generally through the transmission of blood or other body fluids. With the help of current treatments, most of those 2 billion will manage to clear the virus and recover. But around 10 per cent will not; they will develop chronic infections that can lead to even more serious long-term illnesses, such as liver cancer. For infants and children, the percentage is much higher: 90 per cent of infants and 50 per cent of young children infected with hepatitis B will develop chronic infections.

These chronic infections are caused by a special form of the hepatitis B virus that develops in the liver: a virus consisting of a very stable type of DNA (called cccDNA) that is extremely difficult to attack directly with drugs or treatments. But AHFMR student Kimberley Zimmerman may have found a way to do just that.

Zimmerman studies zinc-finger proteins — so-called because each protein is composed of a number of finger-like structures, with zinc ions in the middle to hold them together. Each zinc finger can recognize and attach to a specific type of DNA; the more zinc fingers, the more DNA that can be recognized. Zimmerman designs these proteins to attach to specific DNA combinations — namely, the cccDNA that is the culprit behind chronic hepatitis B infections.

"Because we know the DNA sequence of hepatitis B virus, we can decide what sequence of zinc finger protein is needed to bind it," said Zimmerman. She explained that the concept is similar in principle to the Denver boot, a type of wheel clamp



Kimberley Zimmerman is investigating ways to disable the hepatitis B virus.

used by some police departments to immobilize illegally parked vehicles. When a Denver boot is placed on a wheel, the car can't go anywhere. "The idea is that these zinc finger proteins are the clamp and that particular form of hepatitis B virus in the liver is the tire."

Once she was convinced that the proteins were attaching well to their targets, Zimmerman tried the process in a model of a hepatitis

B infection to see how it affected production of the virus. And sure enough, she found that the proteins travelled to the hepatitis B DNA and bonded to it strongly, preventing the DNA from reproducing the hepatitis B virus. The next step is to determine whether the zinc finger proteins can make the DNA break down and disappear.

In September, Zimmerman filed a patent for the application of zinc

finger proteins as future treatments. "The proteins are the first therapeutic to target cccDNA," she said. "We've seen very good results so far with inhibition of the virus, and it's

exciting to take the next step."

(This article first appeared in *Research News*, published by the Alberta Heritage Foundation for Medical Research.) ■

“The idea is that these zinc finger proteins are the clamp and that particular form of hepatitis B virus in the liver is the tire.”

Kimberley Zimmerman

Research links antidepressants and Type 2 diabetes

Ileiren Poon

Depression and diabetes affect millions of Canadians and a School of Public Health researcher has discovered a potential link between the two.

Lauren Brown realized there was a connection while working as a pharmacist in the Grey Nuns Hospital psychiatry program. After analyzing data from Saskatchewan health databases, Brown found that people with a history of depression had a 30 per cent increased risk of Type 2 diabetes.

"It just seemed to be so prevalent that people were coming in with mental illness and they also had Type 2 diabetes, so I wanted to learn a bit more about it," she said.

Brown then studied the medical history of 2,400 people who were diagnosed with depression and were taking antidepressants to determine whether there was a clear correlation between that disease and Type

2 diabetes.

Brown divided the group into four categories: those who took antidepressants considered older therapies, patients who were using newer treatments, those using a combination of both an old and new treatments and people who were in the process of switching medications.

What she found was the risk of diabetes almost doubled for the patients who were using two types of therapies at the same time: tricyclic antidepressants and selective serotonin reuptake inhibitors. Brown says people are usually prescribed multiple medications "if they have severe depression or if they are having a problem finding the right therapy."

Whether the link to diabetes is due to the medication, the severity of the depression or a decreased level of activity in patients with depression is something that needs further study, said Brown.

"With administrative data, we don't have the ability to look at things like that, whether it's a side-effect of the medication or something else," she said. "We can say that there's a link to the antidepressants, but we can't say why that might be."

Brown believes these results emphasize the need for regular screening for Type 2 diabetes in people with depression, particularly for those taking more than one antidepressant. She also encourages diabetes and depression organizations to educate their members about this link, and encourage clients to take steps to minimize their risk.

"In terms of prevention of Type 2 diabetes, things like diet and exercise have proven beneficial," she said. "In some cases there have been studies that show some medications can delay the onset of diabetes."

This study was recently published in *Diabetes Research & Clinical Practice*. ■

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Foundation supports visionary research

Michael Brown

A university ophthalmologist has been included in the latest round of Alberta Heritage Foundation for Medical Research funding for his insight into vision loss.

Yves Sauve, professor in the Department of Ophthalmology, received an AHFMR Senior Scholar award that will be used to help find new ways to study and prevent age-related vision loss. His research focuses on providing new screening techniques and using nutrition to prevent retinal degeneration, a leading cause of blindness.

With an aging population and visual losses affecting one in four people over the age of 75, Sauve says vision problem solutions need to be addressed now.

"We want to prevent blindness by implementing a screening process using the electroretinogram (ERG) and we want to treat it using something inexpensive and applicable to everybody, and that is nutrition," he said.

Using the ERG, which measures electrical activity produced by the eye, Sauve has some preliminary research results that suggest nutritional supplementation with DHA—a type of omega-3 fatty acid—can slow the progression of retina degeneration in a mouse model.

"With cataracts, you can do cataract surgery, but with the retina there is nothing yet that can correct it," said Sauve. "The DHA is promising, but we now have seven years to study DHA and make sure it doesn't have side effects."

Sauve is also involved in a collabora-



Yves Sauve gives Kathleen Thurber an eye exam using an electroretinogram.

orative program with Joe Casey in the U of A Department of Physiology. The study has shown a rare form of blindness is caused by a gene involved in regulating the acidity inside the eye. Sauve has also helped come up with a novel rodent model to compare complementary research done in cones and rods, the cells used in daylight and night vision.

"Our assumption is that, as you start to develop these diseases, that transition will be effected," he

said. "As you move from daylight to night, normally the currents change but with people that develop disease, we think something is abnormal."

And while all this research into vision-loss treatments is exciting, Sauve says prevention by way of early screening should be the medical industry's first priority.

The ERG is an objective test that, "you cannot fake because you are measuring electrical currents

produced by the eye. What you see is what you get," he said. "As early as you can detect it and as early as you can intervene, it all helps with prevention."

AHFMR has offered more than \$32 million to 29 U of A health researchers this year. Each award is available for seven years and has a value of \$1.2-\$1.5 million. These awards are among the richest and lengthiest health research awards in

Canada. "These are high-quality awards, probably the best awards in the country, and because of that they attract people to Alberta," said Jacques Magnan, AHFMR interim CEO and president. "These awards are going to people who have trained in some of the best environments in the world. "We are looking for people with interesting, original ideas." ■

Students encouraged to build a better world

Tasneem Karbani

Changing the world is an aspiration for many undergraduate students as they consider their future employment opportunities.

For the first time, the Faculty of Arts and Career and Placement Services (CaPS) hosted a career forum this month on the topic of humanitarian and peace-related careers. Speakers included Andy Knight, director of the U of A's Peace and Post-Conflict Studies program; Renée Vaugois, executive director of the John Humphrey Centre for Peace and Human Rights; Brian Rumig, director general of the Canadian Security Intelligence Service; Dorothea Moerer, Amnesty International representative; and Kaitie Worobec, vice-president external of AIESEC Edmonton, who were enthusiastic about providing advice to students on pursuing similar careers and discussed their own career paths as well.

Travelling and gaining life experience was a common theme among all the speakers. "If you have the opportunity to go to another country to work, do it. You don't get rich, but the experience you get and what you learn — you'll never forget it. I

went twice, and I was never sorry," said Moerer, who has been an active volunteer with Amnesty International for several years.

Vaugois, who is also the president of Ainembabazi Children's Project (ACP), encouraged students to find their own path by engaging in work that they are passionate about. "Make sure you carve your niche. This is such a cool field—humanitarian and peace—because it's interdisciplinary you get to explore all these different avenues, and you can really find out who you are and what you value. Go and do something that hits you, that makes you feel real," she said.

For students like fourth-year history student Silvia Russell, attending the forum was a basic step towards discovering employment and volunteer opportunities available in this field.

Russell, who will be graduating soon, is interested in working in research or policy in peace and security studies. "Canada is a multicultural society and everyone has ties to everywhere else and I don't think you can ignore what is going on in the world anymore. It's everyone's responsibility, I think, to be informed of what's going on and if you can help, you should."

For political-science students Naveed Bandali and Hans Lund, the forum provided valuable information as they consider future careers in international relations abroad.

"This is a way where you can try to bring changes. You see on the news all the adversity in the world and working in policy or working in development is a way to get involved and see changes happen and see positive effects with the work you do," said Bandali.

"The forum helped in providing a perspective on how each of the panelists arrived at where they are now, and not so we can follow in their footsteps, but to see what footsteps we can take if we want to end up there," explained Lund, who is now in his fourth year. He says he would, ideally, like to work with the Department of Foreign Affairs and International Trade as an immigration officer abroad.

In looking to the future, Lund commented on the great importance of careers in this field. "It is a field where you can effect some change. As the baby boomers start to retire, I think it's important for us to step up to the plate and build a world that we want to live in and that we would want our offspring to live in." ■



breakfast townhall with President Samarasekera

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The tide is turning - *Dare to Discover* is transforming and redefining our campus, community, and mindset. The campus community has embraced *Dare to Discover*, our vision for a great university, and our new focus is producing great results. Every day talented people are making a difference at the University of Alberta and beyond. We've worked together to elevate this University to a new level and we're gaining increased national and international attention.

President Indra Samarasekera invites the campus community to a townhall meeting to consider our achievements and plan our next steps. Please join the President for breakfast and a presentation on the amazing advancements happening at the UofA and how we can continue to succeed.

Wednesday, April 16, 2008
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8:15 am
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Sign language interpreting services, real-time captioning or other disability-related services or accommodations will be arranged upon request. Please contact the event coordinator Sheila Stosky at sheila.stosky@ualberta.ca or 492-1525 to assist with this request.



past, present, future

Skating circles around the past

Michael Brown

The history of women's hockey at the U of A is both long and storied. But, compared to the length of women's hockey on campus, the storied part would only begin to play itself out recently, like a furious goal-mouth scramble in the waning seconds of a close game, trying to make up for lost time.

In Ellen Schoeck's book *I Was There: A Century of Alumni Stories About The University of Alberta, 1906-2006*, she features a picture of the 1912 Strathcona Collegiate Institute women's hockey team, although little else is known about the group of seven dress-wearing pucksters.

In 1925, Leone McGregor made a little hockey history, becoming the first female to graduate from what was the U of A's first graduating class of trained physicians—she was also a hockey goalie.

On Feb. 23, 1927, one of the earliest documented inter-university women's hockey games was a 2-1 loss at the hands of the University of Saskatchewan in Saskatoon.

The list of anecdotes goes on and on. However, women's hockey teams at the U of A spent most of the 20th century unorganized, unrecognized and relegated to local women's leagues and intramurals. Although hockey is Canada's national passion, decades passed before women's hockey would be recognized by Canadian Interuniversity Sport (CIS) and reach the same prominence held by long-established women's varsity basketball and volleyball programs.

That being said, in the U of A Panda's young history of only a decade, they've managed to carve themselves as deep into the U of A's legacy of winning lore as any sports program that dons the green and gold.

"I don't think hockey was ever considered a mainstream sport for females until the '98 Olympics drew near; that really blew things wide open," said Howie Draper, the Pandas' first and only head coach. "All of a sudden women's hockey was important and since that time it has grown by leaps and bounds."

"It was just a matter of knocking over that first domino and then everything happened."

If that first domino was the thought of women's hockey in the Olympics, the second was a little known, loosely affiliated, end-of-the-year tournament in 1997 that Draper, a one-time Golden Bear ('85 to '90), would attend.

The tournament, the brainchild of female hockey booster Connie Stacey, would feature club teams from the U of A, the University of Calgary, the University of British Columbia and the University of Saskatchewan. In what might be



The Pandas were playing hockey in 1927 (right) but it wasn't until the 1999-2000 season that the team began an era of national hockey supremacy.



considered a little dose of foreshadowing, the U of A squad, coached by Edmonton Chimos and National Team legend Shirley Cameron—and made up of players from a U of A club squad known as the Ice Breakers—would go on to win the four-team exhibition tournament.

This success, and the impetus that was the Olympics and 80-odd years of struggle, would help the Pandas officially gain varsity status for the 97-98 CIS women's hockey season.

With Draper at the helm, the Pandas inaugural training camp opened Sept. 13, 1997, with 51 athletes vying for 21 spots. That year the Pandas would go 19-7-4 in the Northern Alberta Ladies Hockey League against club teams, and competed in the Canada West tournament to end the year.

"I remember every game was very close and I think every team ended up tied for points, so it came down to a tie-breaker," said Draper.

By virtue of a 1-0 win over a strong U of C Dinosaur team, the Pandas, patched together with a mix of local club players and some ringette crossovers, would advance to the first-ever Canada West finals.

There they would beat the heavily favoured Manitoba Bisons 4-3 on the strength of a Krysty Lorenz hat-trick, and advance to the Canadian Interuniversity Athletic Union finals.

Overmatched from the start, the Pandas would bow out after two hard-fought losses to the seasoned University of Toronto and Concordia, both of which had been competing as varsity teams in their own conferences since the 1970s.

"I really think that the biggest thing that helped us evolve as a team was getting to national for the first year," said Draper. "The nationals were a much bigger thing in the East and the teams were far better—it was a real eye opener for us."

"All of a sudden it was serious."

The following season, the Pandas would make their second straight appearance at nationals, upsetting McGill 3-2 in a shootout and then beating Wilfrid Laurier 3-2 to advance to the final against the defending national champion, the Concordia Stingers. The Pandas would lose 2-0 in the final, but sent a message that the gap had closed.

The 1999-2000 season would mark the first time women's hockey had its own Canada West schedule.

The Pandas would skate to an 11-1 mark, dominate the CW finals and, once again, head to nationals.

Three times a charm, the Pandas opened with a 4-2 win over Guelph, dumped the two-time defending champion the Stingers in a shootout, and then shut down McGill 2-0 to hoist the CIS national championship trophy for the first time.

The Pandas would never look back, skating to national championships in 2002, 2003, 2004, 2006 and 2007.

"We've had some good players along the way and that helps," said Draper, referring to the likes of Olympian Judy Diduck, who joined the Pandas for the 2001-02 season. "When you get a national-team athlete or a player of that caliber, it has an exponential increase on your team's ability to find success, they make that much difference."

"Success breeds success and the rest is history."

The latter notion applies to women's hockey as a whole. Hockey Canada has recently recognized the CIS as the league it would like its high-performance players to develop in, giving university women's hockey further credibility.

"Maybe in the next 10 years you'll see the tide of players heading to the States now turn, and that is just going to make our hockey programs that much stronger," said Draper. "Eventually it will be the top league for women's hockey in Canada for the age group."

Unfortunately, this commitment to strengthen the game, paired with recruitment that now pushes across both provincial and national borders, also means the Pandas hockey dynasty may be in for a little rougher ride.

In fact, signs of league parity are already on the horizon as the Pandas spent this year's national championship game on the outside looking in.

"I can see more teams coming into the league, and with the scholarships available and different incentives for players to attend different schools, it is going to get harder to compete," said Draper. "That being said, I think our tradition of excellence is rich here at the University of Alberta, and sometimes that's the best recruiting tool I have."

"I'm quite certain we'll be near or at the top for the next 10 years." ■

All in the family

Connie Bryson

One of the universal truths about medical research is that it takes a very long time. Scientists often spend years in the pursuit of knowledge about the tiniest workings of the human body. Even when scientists discover something that may be useful in treatment, it can take many more years before the results of that research are ready for use in your doctor's clinic or in the hospital. This application of scientific findings to treatment — called translational research — represents the ultimate goal of medical research: to improve health care and make a difference in people's lives. But the demands of science mean that the journey from bench to bedside, from laboratory to clinic, is long.

Yet there are exceptions to this rule. Just ask Alberta Heritage Foundation for Medical Research (AHFMR) scientist and biochemist David Brindley and his son, critical-care physician Peter Brindley. For them, it all started in the emergency ward of the University of Alberta Hospital with a critically ill patient thought to be experiencing a complete lack of blood supply to the abdomen—a fatal condition unless surgery could be performed immediately.

However, some strange lab findings gave Peter pause: inconsistent lactic acid results. High lactate

levels indicated a lack of oxygen in the cells, a finding which would have been expected in a patient lacking blood supply to a particular area. But a different lactate test showed normal levels. Other tests later determined that the patient had swallowed ethylene glycol, a toxic ingredient found in antifreeze and various household cleaners, substances often accidentally swallowed by children. Abdominal surgery could have proven fatal. Instead, the patient was treated for ethylene-glycol poisoning and eventually released.

But the strange lactate-test results continued to puzzle Peter. "I've been taught that if things don't fit, you are obligated to find out why. That's science." So he got in touch with a research scientist he happened to know quite well: his father.

Intrigued, David Brindley suggested conducting some experiments to try to explain the odd discrepancy. They took the metabolites of ethylene glycol (the products it breaks down to after it is in the body), added them to blood samples, and ran the samples through the two different analyzers that had provided the contradictory test results that day.

"We found that it was the metabolites themselves that caused the discrepancies in the tests," he explains. The Brindleys dubbed the phenomenon "the lactate gap,"

when one particular analyzer shows very high lactate levels, but levels are normal on all other types. This difference can now be attributed to ethylene-glycol poisoning, which otherwise takes several hours to diagnose. "We've basically developed an immediate bedside test for ethylene glycol poisoning," said Peter, which is an important development, since time is of the essence in treating this type of poisoning. The longer the patients go without treatment, the higher the likelihood that they will develop kidney failure or other long-term effects, or even die.

The work has proven particularly rewarding for both doctors. Within weeks of the initial case, another patient presented at the same emergency department with similar symptoms. Aware of the recent precedent, staff immediately ran both tests and determined that ethylene glycol was the culprit. The second patient was treated and released much more quickly than the first, and recovered faster.

Since he and his father published their findings, Peter has heard of about a dozen more such cases and has received e-mails from around the world, telling him of similar experiences and the successful use of the new test.

"Having both the science and the clinical findings seemed to amplify this work," he explained. His father added, "I've published a couple of hundred research papers in my



Dr. Peter Brindley, left, and his father David developed a new test for glycol poisoning after Peter dealt with an unusual case in the emergency room.

career. As a scientist, I always hope that my work will someday have clinical impact. This already has."

This was a case of, "translational research across the dinner table," as the Brindleys put it. In the bigger picture, the excellent clinical and research environment in Alberta is building better links between clinicians and scientists all the time. Physicians have to think in different time frames than scientists, explains Peter. Doctors think in terms of how best to help their patients—with much more immediacy than

scientists do—with their careful, methodical approach to problems.

"So, as doctors, we provide one piece of the puzzle, and we need to be able to talk to the people who have the scientific training to provide the other piece," said Peter. Not every city or hospital has these kinds of resources, this kind of environment. AHFMR has helped build that environment here."

(This article first appeared in *Research News*, published by the Alberta Heritage Foundation for Medical Research.) ■

EnCana donates \$7.5 M for new chairs

Michael Brown

In 1920, University of Alberta President Henry Marshall Tory convinced young Karl Clark, a rising chemical engineering star, to leave the friendly confines of his Ottawa home to come west and help unlock the mystery of how to separate oil from sand.

Nine years later the gamble paid off, as Clark discovered not only the process by which bitumen is separated from oilsands, but also the platform that drives Canada's current economy.

Almost 80 years later, Encana Corporation, an oilsands giant, is betting that the U of A can figure out a way to best marry oilsands production and the environment by making one of the largest corporate donations to date in the university's Campaign 2008; a \$7.5 million donation to the University of Alberta that is earmarked for the advancement of research on energy and the environment.

This donation—which will endow a chair in environmental engineering, a chair in water resource sciences, and scholarships for exceptional students studying any area related to energy and the environment—will address the recognition that supplying energy to future generations will require building a critical mass of research on energy and the environment.

"Our world is continually demanding more energy and Alberta

is in a unique position to help," said Randy Eresman, EnCana's president and CEO. "At the same time, developing our natural gas and oil resources in an environmentally sound manner is essential. That's why we need the collaboration of great institutions like the University of Alberta to find new and better ways to efficiently develop our resources in a sustainable way.

"This donation will fund three important endeavours to help attract and support the best and brightest professors and students who will be advancing knowledge at the intellectual crossroads of energy and environment," he said. "It is hoped that EnCana's funding will help the University of Alberta dare to discover and dare to deliver on Canada's goal of becoming a world leader in environmentally sustainable energy development."

President Indira Samarasekera spoke of the increased quality of life that energy advancement has brought the world, but said all that has been gained will quickly erode if we don't start looking to the future.

"We believe that we have critical role to play in providing scientific discoveries and technical innovations that lead to more efficient and cleaner energy production, and in training the future generations of engineers, scientists, business leaders, policy makers, and technologists who will put these discoveries and innovations into practice," said

Samarasekera of the \$7.5-million total donation, of which \$6 million establishes the research chairs at \$3 million each, and \$1.5 million endows the EnCana Scholars Awards. The EnCana chair in environmental engineering will focus on enhancing the understanding of best practices in a wide range of environmental, social and business arenas, while the EnCana chair in water resource sciences will serve as the catalyst for comprehensively documenting, analyzing and protecting groundwater systems in Alberta.

The EnCana Scholars Awards were created in the spirit of the university's 100-year history. Each year 10 top achievers in their third and fourth years will each receive awards of approximately \$6,500, on the basis of outstanding academic merit in disciplines related to energy and the environment.

"In the coming decades, the world will need the energy that the Alberta oilsands can supply, but the world will also need the environmental leadership that Alberta will provide in the development of cleaner technologies such as carbon capture and storage, effective land reclamation practices, and excellent stewardship of water resources," said Samarasekera.

"If we succeed in meeting the world's needs—and I feel confident that we will—this gift from EnCana will be one of the major reasons for our success." ■

surf city

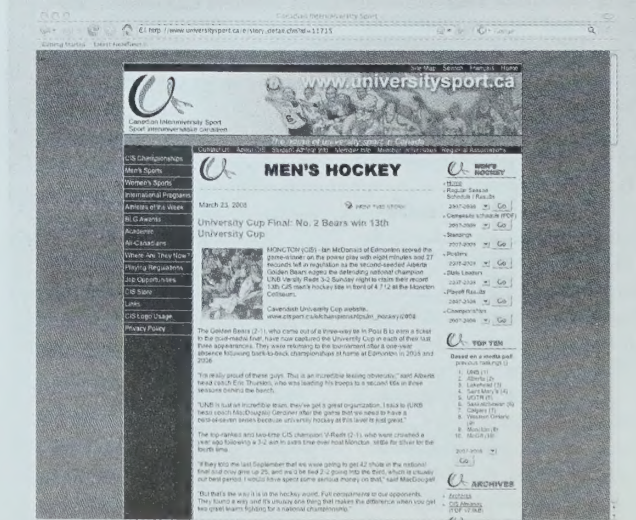
OK — you kept track of the Golden Bears as they skated to a national championship last weekend. And in the process, you watched some really outstanding hockey. Who among us (ahem) knew what the Université de Moncton Agiles Bleus were capable of?

Well, we all would have had a little more intelligence on the opposition had we been visiting the Canadian Interuniversity Sport website more frequently. It's the clearing house of information on university sport in Canada—and it does a fine job of

keeping you up-to-date. Men's and women's sports, Athletes of the Week, Academic All-Canadians—it's all there. The site even boasts a job opportunities section, including international opportunities.

A 'Where are they now' page could use some TLC, but there is a feedback button on the page allowing us to do just that.

Next year, school yourself on the CIS and impress your friends. Visit the site at: <http://www.universitysport.ca/index.cfm> ■



Ancient lemur bones present a puzzle

Bev Betkowski

Initial analysis of recently discovered hand bones belonging to an ancient lemur has revealed a mysterious joint structure that has scientists puzzled.

Pierre Lemelin, a professor of anatomy at the University of Alberta, and a team of fellow American researchers have analyzed the first hand bones ever found of *Hadropithecus stenognathus*, a lemur that lived 2,000 years ago. The bones were discovered in 2003 in a cave in southeastern Madagascar.

An examination of the five tiny hand bones by Lemelin and the rest of the research team revealed a new hand joint configuration on the side of the little finger. The same joint configuration is straight in all other primates, including *Archaeolemur*, an extinct close relative.

"Our analysis showed a mosaic of lemurid-like, monkey-like and very unique morphological traits," Lemelin said. "Because the joint was present on both hands, it's likely not an anomaly, but because there are no other *Hadropithecus* hand bones for comparison, we don't know for certain."

"It is a mystery, and further investigation is needed to explain the difference in this species."

Lemelin and his colleagues also

"It is a mystery, and further investigation is needed to explain the difference in this species."

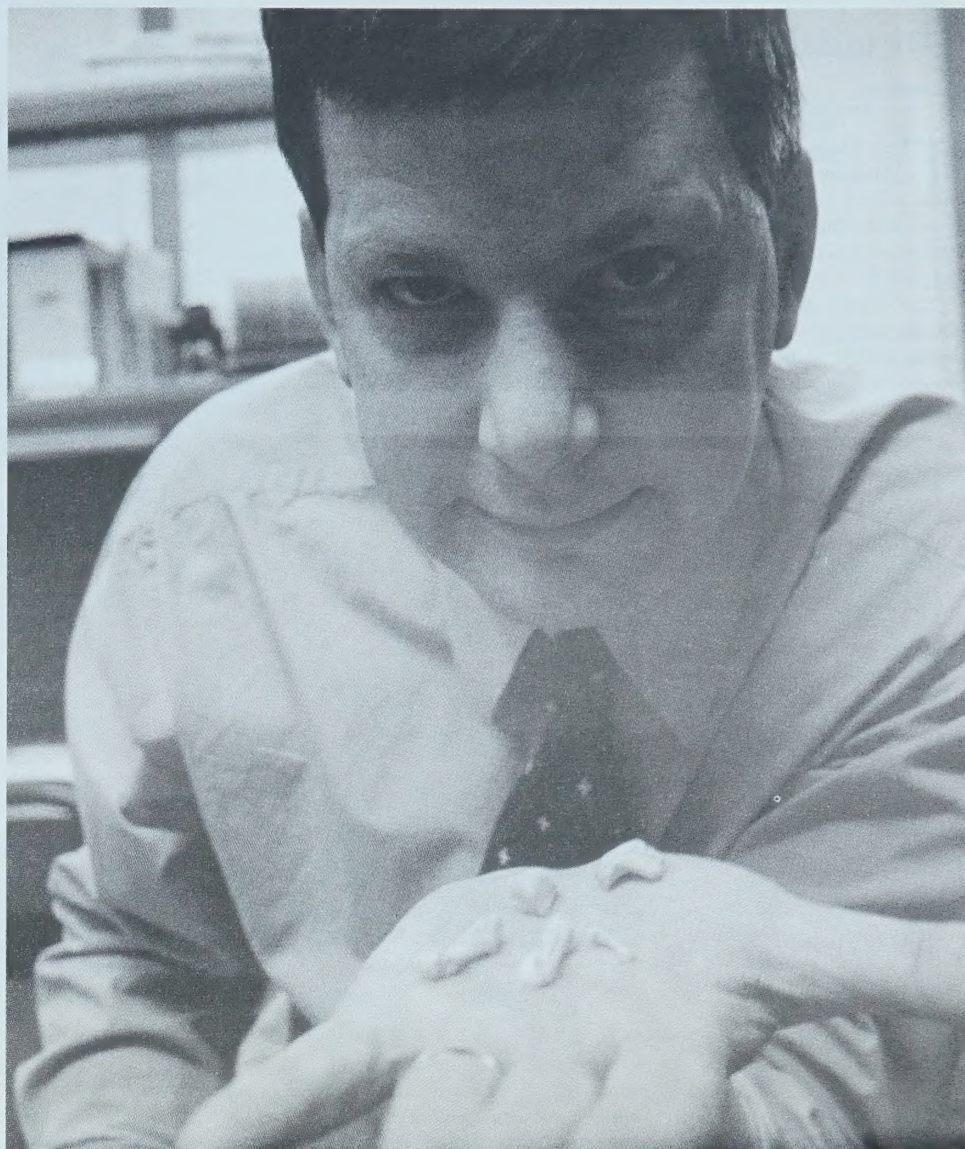
Pierre Lemelin

discovered that, unlike its closest living relatives, *Hadropithecus* lacked anatomical traits linked with wrist mobility and strong finger flexion that characterize primate species that climb or cling to trees.

The hand bones also showed that *Hadropithecus* had very short thumbs and was a quadrupedal species, walking on all fours much like many primates do today. The discovery underscores the amazing diversity of lemurs that existed more than 2,000 years ago, when lemurs of all types ranged from pocket-sized to the size of gorillas, Lemelin noted.

The findings were published this month in the *Journal of Human Evolution*.

The study was funded by the Natural Sciences and Engineering Research Council of Canada and The Leakey Foundation. ■



Pierre Lemelin holds the hand bones from a lemur that lived 2,000 years ago. Lemelin and his research colleagues have discovered an unusual joint configuration in the bones.

Gene blocks HIV

Richard Cairney

A team of researchers at the University of Alberta has discovered a gene that is able to block HIV and, in turn, prevent the onset of AIDS.

Stephen Barr, a molecular virologist in the Department of Medical Microbiology and Immunology, says his team has identified a gene called TRIM22 that can block HIV infection in a cell culture by preventing the assembly of the virus.

"When we put this gene in cells, it prevents the assembly of the HIV virus," said Barr, a postdoctoral fellow. "This means the virus cannot get out of the cells to infect other cells, thereby blocking the spread of the virus."

Barr and his team also prevented cells from turning on the TRIM22 gene, provoking an interesting phenomenon: the normal response of interferon, a protein that co-ordinates attacks by genes like TRIM22 against viral infections, became useless at blocking HIV infection.

"This means that TRIM22 is an essential part of our body's ability to fight off HIV. The results are very exciting because they show that our bodies have a gene that is capable of stopping the spread of HIV."

One of the greatest challenges in battling HIV is the virus's ability to mutate and evade medications. Antiretroviral drugs introduced during the late 1990s interfere with HIV's ability to produce new copies of itself—and though beneficial, the drugs are unable to eradicate the

virus. Barr and his team have discovered a gene that could potentially do the job naturally.

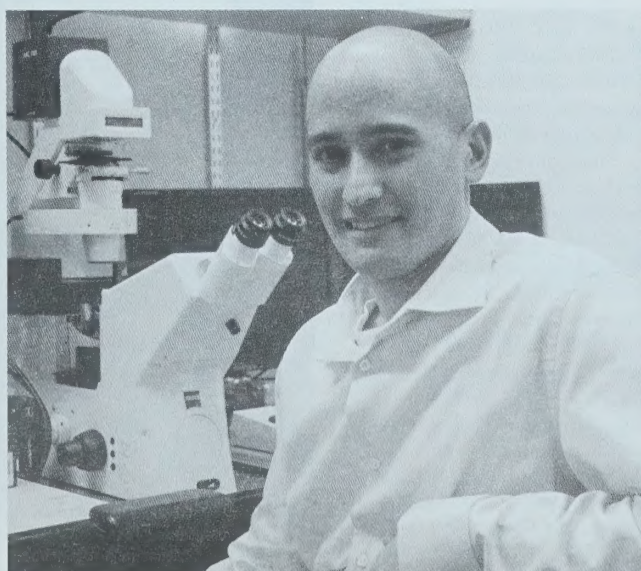
"There are always newly emerging drug-resistant strains of HIV so the push has been to develop more natural means of blocking the virus. The discovery of this gene, which is natural in our cells, might provide a different avenue," said Barr. "The gene prevents the assembly of the virus so in the future the idea would be to develop drugs or vaccines that can mimic the effects of this gene."

"We are currently trying to figure out why this gene does not work in people infected with HIV and if there is a way to turn this gene on

in those individuals," he added. "We hope that our research will lead to the design of new drugs, or vaccines that can halt the person-to-person transmission of HIV and the spread of the virus in the body, thereby blocking the onset of AIDS."

The researchers are now investigating the gene's ability to battle other viruses.

Barr's research is funded by the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council and the Alberta Heritage Foundation for Medical Research. The findings are published in the *Public Library of Science Pathogens*. ■



Molecular virologist Stephen Barr has discovered a gene that prevents the HIV virus from replicating itself. Barr's research is now looking into reasons why the gene doesn't work in people infected with HIV.

MBA after PhD?

University of Alberta MBA CIHR Science 2 Business Program

The Alberta MBA Program in Technology Commercialization is designed to provide students with the skill set to push innovative new ideas into the marketplace. With support from CIHR, the Alberta MBA Program is able to offer a scholarship program to recent Health Science PhDs who wish to pursue their MBA.

Open to students who have completed their Health Science PhD's within the last 7 years, the scholarship program is intended to strengthen research translation by providing business training to health scientists. Qualified students entering the program will have their entire tuition costs covered during the MBA program and will also receive a stipend of up to \$20,000/year.

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On track for Olympic gold

Geoff McMaster

Tyler Christopher blew past the competition in the final stretch to win the 400-metre race at the indoor athletics championships in Valencia, Spain on March 9.

“It’s definitely an important win, and helps with the confidence getting ready for Beijing,” said the 24-year-old runner, who trains on campus with University of Alberta coach Kevin Tyler. “I beat two of my main competitors, who will probably be in the finals at the Olympics.”

Christopher poured on the steam from third place in the final 40 metres to win his first world title with a time of 45.67 seconds, a Canadian record and world’s best this year. His closest competitor in the field finished with a time of 46.03.

“I told him before the final, you’re the only guy ready to break 46 seconds,” said Tyler, adding that the timing of the indoor event was everything in preparing Christopher for the ultimate test this summer.

“In an Olympic year, you wouldn’t necessarily participate in an indoor world championship,” said Tyler. “But it was obvious to me he was ready to be triumphant at this event, so it made sense on that basis. To be able to run three rounds in three days on a very tight track, and be able to recover and compete at a world-class level the next day, is massive.”

Tyler, who heads the Canadian Athletic Coaching Centre at the U of A, added that he’s not surprised



Tyler Christopher won gold in the 400-metre race at the indoor athletics championships in Valencia, Spain. Christopher, who trains at the U of A, will compete at the Olympics in Beijing.

by the win; Christopher’s progress has been steady and consistent since winning the bronze medal at the outdoor world championships in 2005.

“Everything happened so quickly that year—in eight months he went from 35th in the world to No. 2

in the world. He had kind of been hanging in the top two to six for the last two or three years. We all knew he had the physical ability; it was just a matter of putting the finishing touches on it.”

However, Christopher still has a tough challenge ahead. The three

Americans who swept the podium at the Athens Games four years ago were not in the Valencia race, including gold-medalist Jeremy Wariner, who many argue is in a class by himself.

“He’s won everything since about 2004 and is just off the world

record,” said Tyler. “Right now, (he and Tyler) would have a pretty good race.”

Christopher has been training at the U of A since 2001 and has “showed a tremendous amount of ability right from the beginning,” said Tyler. ■

Embracing Earth Charter key to environmental salvation

Geoff McMaster

Human beings, laments Colin Soskolne, are a “seriously dumb species.”

What kind of defect drives us to destroy the very ecosystems that provide us with sustenance? Why do we turn away from mounting, irrefutable evidence that we are sabotaging our very existence?

Such questions are asked in a new collection of essays called *Sustaining Life on Earth: Environmental and Human Health through Global Governance*, edited by Soskolne, which emphasizes the impact of global change on population health and the role of legal instruments in bringing about positive and sustainable change.

“Our livelihoods and, in fact, life itself fundamentally depends on the ability of ecosystems to function [and] produce goods and services, the sources of which we have for too long taken for granted.”

“So, with a track record of wanton destruction, how smart are we?” asks the professor of public health sciences who has spent much of his recent career taking stock of the impact on human health by climate change and pollution.

He says the message is simple: people around the world must embrace the Earth Charter. Drawn up by Canadian Maurice Strong in

1992—and with help from such advocates as former Soviet leader Mikhail Gorbachev—it has since undergone a number of revisions and confronted hurdle after political hurdle. The charter was launched in 2000 and is now considered to be the seminal global consensus statement on how to define and achieve sustainability—providing a vision statement that ensures the basic rights of sanitation, water quality, food safety and air quality for all.

It is, says Soskolne, “the set of values and principles that will guide us, globally, onto a future path that provides for just, sustainable, and peaceful ways of living.”

“I believe that even if (Alberta premier) Ed Stelmach read this document, he would feel that it resonated with him. This is why I feel that it has such promise, that we have to get the word through to people we don’t even see as being our allies necessarily in this cause, because the issues are so grave.”

In a recent campus lecture that drew largely from his book, Soskolne took a moment to express his frustration at Alberta’s lack of foresight on the environment.

“You can see how dumb we are—we’ve just had an election in which people stayed away from the polls instead of voting for people with

values and principles allied with their own,” he said at the talk sponsored by the John Dossetor Health Ethics Centre. “It was a watershed time in the history of this country, and we got a 41 per cent voting turnout. It was a very sad day.”


Soskolne listed the myriad forms of environmental destruction humans have left in their wake, from the pollution of the oceans to unfettered development of the oilsands to the eradication of thousands of species. He said the only way to fend off a “gloomy” future is to join forces with people across the political spectrum who share a common concern for the planet.

This tone of urgency can also be detected in the forward to *Sustaining Life on Earth*. There is a deliberate attempt to make scientific findings, environmental policy and issues of global governance accessible to average readers, he writes, and especially students at all levels of study: “Now more than ever, future leaders in all fields of endeavor need to understand and embrace the message of this book.”

Soskolne also urged the U of A—along with the governments of Alberta and Canada—to officially endorse the charter.

“Maybe if we can invoke a little wisdom, we can change things.” ■



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Arctic expert will learn to find his voice

Ilireen Poon

Polar bears aren't the only media darlings putting a face to global warming. Scientists and researchers are also being asked to step into the spotlight in the back-and-forth debate.

And a U of A glaciologist will be front and centre in that debate, thanks to the Aldo Leopold Leadership Fellowship.

Martin Sharp, a professor in the Department of Earth and Atmospheric Sciences, has been facing the media glare since the Kyoto Protocol was put into place in 2005. To help deal with the pressures of being in the public eye, Sharp has been offered a prestigious fellowship based at Stanford University's Woods Institute for the Environment. The Aldo Leopold Leadership Program offers mid-career academic environmental scientists intensive communications and leadership training to help them deliver scientific information more effectively to policy makers, the media, business leaders and the public.

"I think this will take my understanding of how these things operate to a whole new level," he said. "I've been thinking a lot about how we scientists interact with the public, and the media in particular, and it will be wonderful to be able to converse with other people who are thinking about the same things."

Sharp's expertise in monitoring the levels of Arctic sea ice has been in demand due to increased public discussion about climate change, but he's not sure the right discussion is taking place.

"We still see lots of stories about Arctic sea ice receding and about Arctic shipping and sovereignty. We're those stories over and over again, but we're not hearing about why these things important," he said. "The whole debate had gotten bogged down and we're not talking about the important issues anymore and the public's getting bored with it."

Scientists not only have to find new ways to contribute to the discussion, but also have to find new ways to think about science, says Sharp. Science has to go beyond the communication of data to the communication of consequences, necessary changes and necessary action.

"It's no longer good enough to say that the sea level might rise 40 centimetres; we need to say where it's going to rise and when."

At the same time, researchers have to walk a fine line between ensuring a strong message and not misleading the public.

"Researchers are supposed to be the voice of fact, but it doesn't often work that way in the environmental arena because we're not able to do the kinds of controlled experiments that happen in the laboratories," said Sharp. "What we have to offer is the best interpretation of the data available at the moment, which can be pretty inadequate. We're being asked to respond to rapid changes, which we're picking up from data sources that weren't designed to track those kinds of changes," he said.

"We need to make sure we're being honest, but at the same time convincing people that we know enough to take action." ■

Exercise heals the heart

Phoebe Day

From CBS News to the *Iran Daily*, news outlets around the world paid attention when professor Mark Haykowsky released his findings on how aerobic exercise can help reshape a failing heart.

It helped that in the weeks before the paper would appear in the *Journal of the American College of Cardiology*, it was flagged as an article worth highlighting for the June 19 issue and would receive an accompanying editorial, discussing the findings.

The American College of Cardiology also sent a film crew north to Haykowsky's office in the Faculty of Rehabilitation Medicine and some of the big networks, such as NBC and CBS, later ran the story on affiliate stations across the United States.

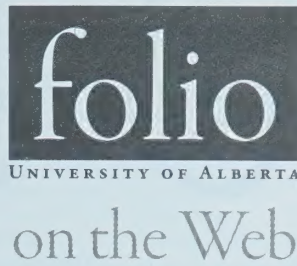
In the study, Haykowsky and his research colleagues performed a meta-analysis examining the effect of exercise training on ventricular remodeling in clinically stable individuals with heart failure—14 trials, 812 patients. Nine trials evaluated aerobic training, four evaluated combined aerobic and strength training, and one involved strength training alone. The research team found that when patients with heart

failure performed aerobic exercise several times a week, the oversized heart became significantly smaller and better able to pump blood.

"But the benefit was specific to aerobic exercise," said Haykowsky. "Heart failure patients got the best bang for their buck when doing aerobic exercise. When strength training was combined with aerobic training, the same results weren't confirmed."

In most cases, heart failure is the result of years of high blood pressure or damage from a heart attack. Over time, the heart becomes enlarged, misshapen, and too weak to effectively pump blood, a process known as remodeling. As a result, patients typically become short of breath even with very little activity.

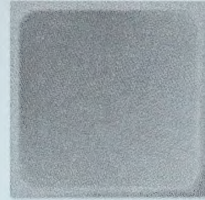
But for many years, doctors recommended that people with heart failure avoid exercise. In some cases, patients were even put on bedrest in an attempt to relieve the heart of any extra stress. Over the last decade, however, it has become increasingly clear that exercise is good for patients with heart failure, not only reducing symptoms and allowing patients to live more active lives, but also reversing some of the harmful hormonal changes that take place as the body attempts to compensate for a weakened heart. ■



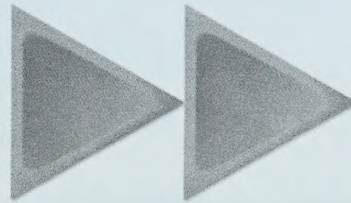
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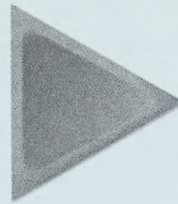
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talks & events

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Fine Arts



Garrett Spelliscy plays the hard-done-by servant Malvolio (with Jenny McKillop as Olivia and Stacy Berg as Maria). Right: Ryan Parker as Sir Toby Belch and Kirsten Rasmussen as Fabian in the Studio Theatre production of *Twelfth Night*. For a chance to win tickets see page 2.



Until Apr 30, 2008

Mappae Mundi: Representing the World and its Inhabitants in Texts, Maps, and Images in Medieval and Early Modern Europe. This exhibition showcases some of the treasures of the University of Alberta's Map and Special Collections, as well as other U of A libraries, particularly in terms of resources to aid in the study of the cultures of Medieval and Early Modern Europe. We have focused on "facsimiles" (though not all of the works included are technically facsimiles), and one of the ways to view the exhibition is in terms of the art of the facsimile, from early twentieth-century black-and-white photographs to twenty-first-century colour, digital photographs on CD-ROM. Copies of the exhibition catalogue are available at the Bruce Peel reference desk (\$25 softcover / \$40 hardcover) Rutherford South Rutherford Library, <http://www.library.ualberta.ca/specialcollections/index.cfm>

Until May 4, 2008

Seeing Through Modernism: Edmonton 1970 - 1985 During the 1970s and 1980s, Edmonton was recognized internationally for its thorough exploration of modern painting and sculpture. This exhibition explores the means through which Edmonton developed and maintained its modernist tradition through the relationships between the work of the Faculty of Arts, the Department of Art and Design, the strong support of modern art by the Edmonton Art Gallery and some commercial galleries, and the consistent presence of private collectors. Anne Whitelaw, associate professor in the History of Art, Design and Visual Culture, curated this exhibition.

Until May 15, 2008

Design Works The Department of Art and Design in the Faculty of Arts is pleased to showcase design works by students and staff in design studios. The exhibition can be viewed in the Main Floor Atrium of Enterprise Square. This is the first in a series of exhibitions featuring innovative and thought-provoking designs

from the undergraduate and graduate programs in Industrial Design and Visual Communication Design.

Until Dec 18, 2008

Saeculum: Commemorative Coins from Ancient Rome As part of the University of Alberta's Centenary celebrations, the Department of History and Classics is pleased to present a special exhibition of Roman coins focusing on the theme of 'commemoration'. The coins, many of which have been loaned to the department specifically for this exhibition, illustrate some of the important figures and key events of Roman Imperial history. Tours and visitations can be arranged by contacting the main office at 492-3270. 2-89 Tory WG Hardy Collection of Ancient Near Eastern and Classical Antiquities

Friday, Mar 28, 2008

Sounds Like 1908 An afternoon celebration of music and poetry composed in 1908, in this centenary year of the University of Alberta. St. Joseph's College presents musical guests from the community in this recreation of a musical concert from 100 years ago. 3 p.m. St. Joseph's College chapel <http://www.ualberta.ca/~stjoseph/develop.m.ent/Events.html>

Friday, Mar 28 - Saturday, Mar 29, 2008

Alberta Student Film Festival From feature films to music videos, the festival provides two evenings of diverse independent filmmaking. 7 - 10 p.m. Aberhart Centre www.myspace.com/albertafilmfest

Friday, Mar 28, 2008

World Music Concert World Music Concert Middle Eastern and North African Music Ensemble Michael Frishkopf, director, with special guests the Najwa Persian. Tickets available at TIX on the Square, 420-1757, at the door. 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Saturday, Mar 29, 2008

Madrigal Singers Dinner Concert Gala The U of A Madrigal Singers invite you to the 21st annual Dinner Concert Gala. The evening includes a four-course meal, silent auction and musical performances. Proceeds will help fund an Ireland tour in April where the group will compete in the Cork International Choral Festival. Tickets: \$100/each or table of eight /\$700. Contact Amy Gartner at agartner@ualberta.ca or (780) 554-4379.

Saturday, Mar 29, 2008

World Music Concert Indian Music Ensemble Sharmila Mathur. An evening of celebrating folk and classical Indian music featuring: expression through musical fusion sitar and tabla recital punjabi folk song devotional songs. Guest artists: Glen Halls - Piano, Vinod Bhardwaj - voice, Garry Kaller - guitar, Manav Gulati - voice. Admission by donation 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Sunday, Mar 30, 2008

University of Alberta Academy Strings and Orchestral Winds and Percussion Tanya Prochazka and Angela Schroeder, conductors, 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Monday, Mar 31, 2008

Noon Hour Organ Recital A variety of repertoire played by students, faculty and guests of the Department of Music. Noon. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Master of Music Recital Philip Chow, organ, 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Master of Music Recital in Choral Conducting Master of Music Recital in Choral Conducting Adam Robertson, 8 p.m. <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Thursday, Apr 3, 2008

Piano Masterclass Visiting artist James Winn, 7 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Thursday, Apr 3, 2008 - Saturday, Apr 5, 2008

Theatre Art Show The Theatre Art Show is run, organized and designed by students. Enter the world of the designer with an up-close-and-personal look at model making, costume design, and set renderings. Visit the technicians' workshop, displaying examples of drafting for sets, lights, hand-made props or furniture. See examples of stage managers' prompt books and photos from shows. Doors will be open April 3 from 7 - 10 p.m. and from noon - 10 p.m. April 4 and 5. Admission is free. Second Playing Space Timms Centre for the Arts

Friday, Apr 4, 2008

University of Alberta Concert Choir Annual Dinner Concert and Silent Auction Debra Cairns, conductor. Crowne Plaza Chateau Lacombe, 10111 Bellamy Hill. Admission: \$60 Call 492-2384. 6:30 p.m. <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Words Without Borders a literary tour for freedom of expression featuring readings by Writer-in-Exile Jalal Barazani, Afua Cooper, David Davidar, Sheng Xue. Suggested admission - \$10. Advance sales at TIX on the Square www.tix-onthesquare.ca or 780-420-1757. **Milner Library Theatre, 7 Churchill Square.** 7 p.m. http://www.pencanada.ca/media/PEN_Tour-rev2.pdf

Music at Convocation Hall I Visiting artist James Winn, piano Bach - Busoni Chorale Prelude "Nun Freut Euch, Lieben Christen" Haydn Andante con Variazioni in f minor H. XVII/6 Ravel Gaspard de la Nuit Beethoven Sonata in C major, Op. 53 "Waldstein," 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Saturday, Apr 5, 2008

Master of Music Master of Music Recital. Alyssa Miller, oboe, 8 p.m. <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

U of A Mixed Chorus 64th Annual Spring Concert Under the direction of Bob de Frece, the Mixed Chorus' 2008 spring concert promises to bring you music filled with enchantment. This year features the world premiere of Quaecumque Vera: Northern Lights in honour of the U of A centenary, and selections from Beauty and the Beast: the Musical finale. The concert also features the Faculty of Education Handbell Ringers, celebrating their 20th anniversary. Tickets are \$18 (adult) and \$12 (student/senior) plus service charges, available at the Winspear Box Office. 8 p.m. at the Winspear Centre. <http://www.mixedchorus.ca>

Sunday, Apr 6, 2008

University of Alberta Concert Band Wendy Grasdahl, director. 3 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Monday, Apr 7, 2008

Music at Noon, Convocation Hall Student Recital Series Featuring students from the Department of Music. Noon. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Grant MacEwan College and University of Alberta Jazz Bands Grant MacEwan College and University of Alberta Jazz Bands Raymond Baril and Tom Dust, directors. An evening of exciting big-band music selected from the libraries of the jazz greats as well as those who are currently defining the idiom. 7:30 p.m.

Happnin' University of Alberta Jazz Choir Happnin' University of Alberta Jazz Choir John McMillan, director. Programs will be made up of various vocal jazz charts written in traditional and non-traditional styles. There will be performances by the group and some soloists from within the ensemble. 8 p.m. Arts and Convocation Hall <http://www.uofaweb.ualberta.ca/music/briefs.cfm>

Friday, Mar 28, 2008

Community Based Research Workshop #2: Doing CBR Well: Ethically and with Rigour Guest speaker Nancy Gibson will present "The Ethics of Researching Sensitive Issues with Aboriginal Communities: A Case Study." 9 a.m. - 3 p.m. <http://www.cup.ualberta.ca/>

Alternative Assessments (Web workshop) In this workshop, participants will learn to develop alternative assessment activities, including portfolios and grading rubrics, using Assignment, Student Presentation, Discussion, and Chat tools. Participants will develop specific strategies for their courses and create assessment aids to help grade student participation. 10:30 a.m. - noon. www.ualberta.ca/WEBCT/

What the Study of the Environment Can Contribute to Sociology William Freudenburg, University of California, Santa Barbara, will present this lecture. Noon - 1 p.m. 5-15 Tory Building, Henry Marshall <http://www.uofaweb.ualberta.ca/sociology>

Read the Baltic Signals: Promoting Baltic Sea Region Higher Education Bernd Henningsen, professor of Scandinavian Studies, Humboldt-University Berlin, and Mai-Brith Schartau, professor of political Sciences, Södertörn University College, Stockholm. 2:30 - 4 p.m. 326 (Senate Chamber) Arts and Convocation Hall

Linguistics Colloquium John Alderete will speak on 'Japanese mimetic palatalization revisited: results of a nonce-probe study and its theoretical implications'. 3 - 4 p.m. ETL E1-008 Engineering Teaching and Learning Complex (ETLC)

Physics Colloquium Experimental Quantum Error Correction. Speaker: Raymond Laflamme, Institute for Quantum Computing, University of Waterloo. Coffee and cookies available at 3 p.m. in CEB 3-21. Department colloquia are intended to benefit all students and staff. 3:15 - 4 p.m. CEB 3-21 CEB <http://www.phys.ualberta.ca/>

Chocolate Tasting Dennis Yurkiwsky from Chocolate Exquisite will lead a tasting of single origin chocolates. Howard Alper will talk about his love of chocolate and the

chemistry of chocolate. Cost \$25. Everyone receives a complimentary gift of chocolate. RSVP to Lucio Gelmini at gelmini@ADMIN.GMCC.AB.CA. 7:30 - 10 p.m. 7-146 Aberhart Centre <http://www.cicedmonton.org/events.htm>

Monday, Mar 31, 2008

AHFMR Visiting Lecturer Dr. Stephen Polyak, University of Washington. Hepatitis C Virus-Host Interactions in Antiviral Resistance and Pathogenesis 9:30 - 10:30 a.m. 510 Medical Sciences <http://www.ualberta.ca/cellbiology>

The Complexity of Health Care Systems: Theorizing Institutional Change in Response to Diversity Lloyd Wylie, PhD candidate, University of British Columbia This research seminar presents a conceptual framework of how three spheres of influence (civil society, political economy and governance) interact and shape health status and health services. Noon - 1 p.m. 6-10 University Extension Centre <http://www.uofaweb.ualberta.ca/iqim/NoonSeminars.cfm>

GFC General Faculties Council Meeting (Council Chamber) 2 - 4 p.m. 2-1 University Hall

Tuesday, Apr 1, 2008 - Friday, Apr 4, 2008

Professional Development Week The Faculty of Graduate Studies and Research is hosting a series of professional development panel discussions for graduate students, postdoctoral fellows, and the campus community at large. <http://www.gradstudies.ualberta.ca/PDweek.htm>

Tuesday, Apr 1, 2008

Childhood Obesity, Insulin Resistance and Disease Risk Visiting Speaker Seminar, Dr. Michael Goran, professor of Preventive Medicine and Physiology and Biophysics, University of Southern California 9:30 - 10:30 a.m. ADI Seminar Room, 1-040 Health Research Innovation Facility - East

International Update Session:

opportunities in Norway Learn about a new initiative by the Norwegian Ministry of Education and Research that allows Norwegian institutions to apply for funding for collaboration and mobility initiatives with partners in the U.S. and Canada. 9:30 - 10:30 a.m. <http://intregistration.ualberta.ca/CourseDescription.do?courseid=2882>

CAP Colloquium Pierre Savard, Department of Physics, University of Toronto: Looking for Dark Matter at High Energy Colliders. 3:15 - 4 p.m. CEB 3-21 CEB <http://www.phys.ualberta.ca/>

Sustainability Speaker Series: Cold Climate Sustainable Building Design Cold Climate Sustainable Building Design. Vivian Manasc is the senior principal at Manasc Isaac Architects, a leader in cold-climate sustainable design in Western Canada. 5:30 - 7:00 p.m. 235 Central Academic Building

Wednesday, Apr 2, 2008

Best Practices in Vista (Web Workshop) In this session we'll provide lots of tips for using Vista optimally. We'll also review how to backup your course, download your grades, and make changes for next time. 10:30 a.m. - noon <http://ualberta.ca/WEBCT/>

"Others": A Dialogue on Difference Stereotypes, personal biases and other human characteristics can create barriers between people. Discussion of these topics, as well as constructive strategies to build common ground, will enable participants to see beyond 'us' and 'them'. Offered free by the Office of Human Rights. Register at www.learningshop.ualberta.ca 2 - 3:30 p.m. CAB 377 Central Academic Building <http://sldregistration.ualberta.ca/CourseCalendar.do>

Visiting lectureship in human rights -- Mary Robinson Mary Robinson, the first woman president of Ireland and former United Nations High Commissioner for Human Rights delivers this year's lecture. Tickets available at the International Centre or through the Citadel Theatre 425-1820 or www.citadeltheatre.com. A limited number of free tickets are avail-

able for U of A students. Tickets will be distributed at the Citadel box office starting at 6:30 p.m. April 2. Students will be required to present their OneCard to receive a ticket. Only one ticket will be provided per student. 7:30 p.m. <http://www.uofaweb.ualberta.ca/humanrightslecture/nav02.cfm?nav02=66887&nav01=30441&>

Friday, Apr 4, 2008

Liberating Faith: The Legacy of Dietrich Bonhoeffer Free Lecture given by Earle Sharam noon - 2:00 p.m. St. Stephen's College

Friday, Apr 4, 2008

Physics Colloquium: Exploring Mercury by spacecraft Sean C. Solomon, Carnegie Institution of Washington. The Messenger probe successfully completed the first of three flybys of Mercury in January. The flyby observations have begun to advance our understanding of the innermost

planet and, more generally, of the family of inner planets. 3:15 - 4 p.m. CEB 3-21 CEB <http://www.phys.ualberta.ca/>

Edmonton Newspaper Reports about the 1932-33 Famine in Ukraine Serge Cipko, Canadian Institute of Ukrainian Studies, will speak on Edmonton newspapers and their coverage of 1932-33 famine in Ukraine 7 p.m. 227 (Heritage Lounge) Athabasca Hall

Saturday, Apr 5, 2008

Exam Strategies Do you know how to start studying & what to study? Get answers to these questions as well as learn how to study for and take multiple-choice, short answer, essay & problem-solving exams. Pre-register at 2-703 SUB. 1 - 4 p.m. Aberhart Centre <http://www.uofaweb.ualberta.ca/academicsupport/nav02.cfm?nav02=53525&nav01=59481>

Postdoc Research Day

Thursday, April 10, 2008
2:00 to 5:30pm
Timmins Centre
122 Street and 87 Avenue

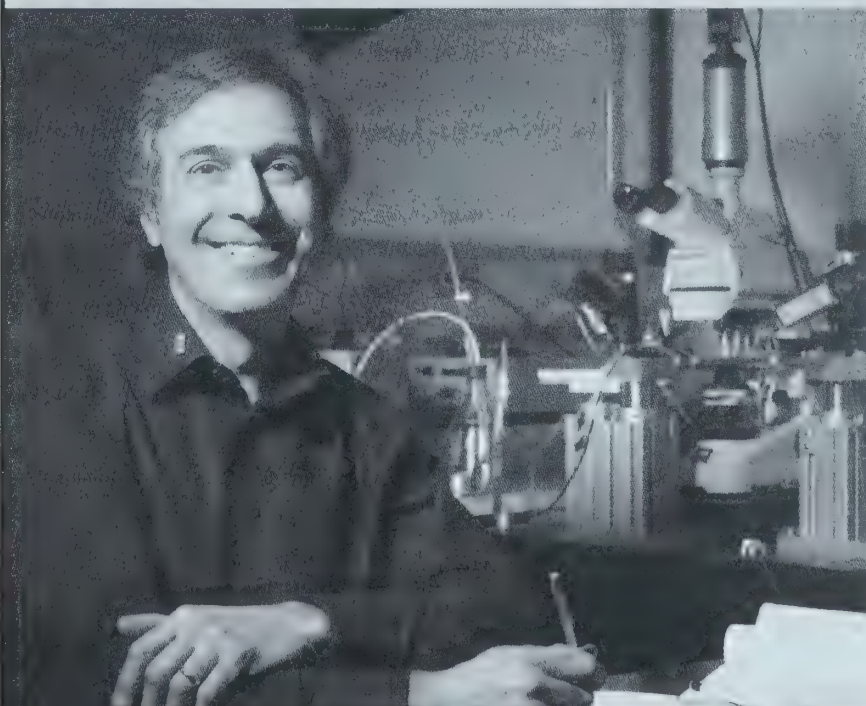
<p>2:00 to 4:00pm 4:00 to 4:30pm 4:30 to 5:30pm</p>	<p>Postdoctoral Poster Session Presentations by Dan Rizzoli, Director of International Education & Intergovernmental Relations, Alberta Advanced Education & Technology; and Stephen Barr, Postdoctoral Fellow, Department of Medical Microbiology & Immunology Networking Reception</p>
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For details, www.postdoc.ualberta.ca

AHFMR Independent Investigator Information Session

Monday, April 7, 2008 12:00PM - 1:30PM

Room: 2-07 - Heritage Medical Research Centre



The Alberta Heritage Foundation for Medical Research (AHFMR) is hosting an information session at the University of Alberta for independent investigators. This session will familiarize prospective applicants and other interested investigators from all Departments & Faculties with the Foundation and the kinds of programs and opportunities that are available, how to apply for funding, recent funding and program changes, and upcoming deadlines.

The session will be hosted by Dr. Pamela Valentine, Acting Director of AHFMR Grants and Awards, followed by Q&A's.

All are welcome to attend

For more information:
dbrunner@ahfmr.ab.ca - 780.423.5727



notices

REVIEW COMMITTEE FOR THE DEAN OF THE FACULTY OF SCIENCE

Dr. Gregory Taylor's term as dean of the Faculty of Science will end on June 30, 2008, and he has indicated that he intends to seek a second term in office. Therefore, a review committee has been established in accordance with university regulations.

At this point in its deliberations, the review committee is interested in your opinions about the state of the Faculty of Science under the leadership of the current dean. The committee believes it is critical that all faculty, staff and students in Faculty of Science and other members of the community have the opportunity to convey their views to the committee. All input must be signed; however, members of the community may ask the Provost to have their input circulated to the committee without attribution.

Specifically, the committee is interested in the following:

Leadership – ability to provide a vision and direction for the Faculty of Science and achieve the strategic goals of the Faculty;

Management – fairness, balance and effectiveness in decision-making affecting the direction of the Faculty of Science; effectiveness in setting priorities and dealing with issues;

Personnel Management – issues dealing with the recruitment and retention of staff, as well as the administration of all personnel within the Faculty of Science;

Contributions – the contributions of the dean within the Faculty of Science, the university, the community (including alumni), and professional fields;

Development – the success of the faculty in achieving its goals with resources available and the effectiveness of the dean in seeking outside funding through fund development and advancement activities;

Communications – the effectiveness of both internal and external communications;

7) Other matters.

If you wish to respond to the above issues, would you please forward your comments/advice no later than **Thursday, March 27, 2008** to my attention at the address below:

Carl G Amrhein

Provost and Vice-President (Academic)
& Chair, Dean Review Committee

2-10 University Hall

Edmonton AB T6G 2J9 OR

E-Mail: provost@ualberta.ca

In addition, an open 'Public Forum' will be held on **Thursday, April 3, 2008**, from 12 – 1 p.m. at 1-013 ETL. At the Forum, the Dean will discuss his vision of the Faculty of Science for the next five years.

Your views are important to us and I encourage you to share your thoughts with the committee. Dean Taylor's review is based on the position description in effect at the time of his appointment. We have posted the description for your reference as you consider and form your views (see <http://www.uofaweb.ualberta.ca/provost/pdfs/Dean%20Science.pdf>). Should you prefer to submit your comments to another member of the committee, please feel free to do so. Please contact any member of the dean review committee or myself for additional information.

Thank you for your assistance.

Carl G Amrhein

Provost and Vice-President (Academic)
& Chair, Dean Review Committee

Dean Review Committee Contact
Information:

Carl Amrhein, Chair 492-3920
provost@ualberta.ca

Andy Greenshaw, Vice-Chair 492-5335
andy.greenshaw@ualberta.ca

Marion Allen 492-7592
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Douglas M. Gingrich 492-9501
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Pamela Willoughby 492-0138
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Raj Boora 492-9975
raj.boora@ualberta.ca

Faculty Excellence Awards

Nomination deadline for the following
Faculty Excellence Awards is **Thursday,
May 1, 2008, 4 p.m.:**

University Cup
University Professor
Vargo Teaching Chair

UAPPOL Application and Selection Procedures:

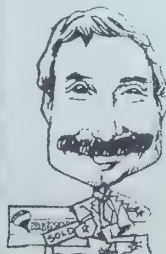
University Cup - https://www.conman.ualberta.ca/stellent/groups/public/@academic/documents/procedure/pp_cmp_059023.hcsp

University Professor - https://www.conman.ualberta.ca/stellent/groups/public/@academic/documents/procedure/pp_cmp_059024.hcsp

Vargo Teaching Chair - https://www.conman.ualberta.ca/stellent/groups/public/@academic/documents/procedure/pp_cmp_059025.hcsp



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Photo by Michael Neugebauer



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2008 Keynote Address

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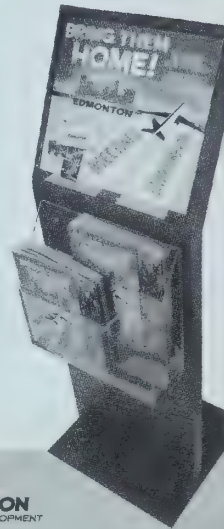


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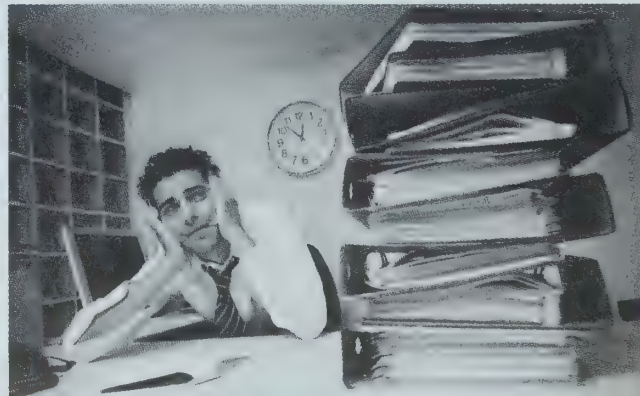
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THE ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

*is delighted to announce new awards offered
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AHFMR HAS APPROVED more than \$59 million over 7 years—more than \$1 million per award for the majority of the awards—following recommendations from peer review advisory committees which adjudicate according to the highest international standards of excellence in health research. AHFMR awards, among the richest and longest health research awards in Canada, contribute to the support of extraordinary people whose work improves the lives of Albertans and people around the world.

The 2008 awards bring the cumulative total of AHFMR support in the province of Alberta to more than \$950 million since the Foundation's creation in 1980. ■

CONGRATULATIONS TO THE FOLLOWING AWARDEES:



Sean Bagshaw (kidney injury) UA
Shairaz Baksh (cancer) UA
Geoff Ball (child obesity) UA
Klaus Ballanyi (breathing in infants) UA
Philip Barber (stroke) UC
Igor Burstyn (pollution and health) UA
Ken Butcher (brain injury) UA
Lisa Cameron (genes and allergies) UA
Linda Carlson (stress and cancer) UC
Linda Carroll (neck pain) UA
Sarah Childs (blood vessels) UC
John Cobb (genes and development) UC
Ian Colman (mental illness) UA
Clayton Dickson (brain rhythms) UA
Dean Eurich (diabetes) UA
Ronald (Reed) Ferber (sports injuries) UC

Christine Friedenreich
(cancer and exercise) ACB/UC
Gregory Funk
(breathing and the brain) UA
Wayne Giles (heart) UC
Ronald Gill (diabetes) UA
Karen Goodman (intestinal bacteria) UA
John Greer (breathing in babies) UA
Savraj Grewal (cell growth) UC
Brenda Hemmelgarn (kidney disease) UA
Nathalie Jetté (epilepsy) UC
Kathryn King (heart) UC
Shoo Lee (quality of care) CHA/UA
Ordan Lehmann (glaucoma) UA
Elaine Leslie (transport proteins) UA
Andrew Mason (liver disease) UA



DR. KEN BUTCHER, AHFMR Clinical Investigator, Faculty of Medicine and Dentistry, UA, and DR. GWENDOLYN REMPEL, AHFMR Population Health Investigator, Faculty of Nursing, UA



DR. SAM WEISS, AHFMR Scientist, Hotchkiss Brain Institute/Faculty of Medicine, UC, and DR. LINDA CARLSON, AHFMR Health Scholar, Faculty of Medicine, UC



DR. GERLINDE METZ, AHFMR Senior Scholar, Faculty of Arts and Science, UL

Sarah McFarlane (vision and the brain) UC
James McGhee (genes and the intestine) UC
Gerlinde Metz (Parkinson's disease) UL
Redwan Moqbel (asthma) UA
Robert Myers (liver disease) UC
Peter Nguyen (memory and the brain) UA
Sergei Noskov (computational analysis) UC
Gavin Oudit (heart) UA
Kamala Patel (immune system) UC
Tracy Raivio (bacteria) UA
Anthony Reiman (cancer) UA
Gwendolyn Rempel
(heart disease in children) UA
Paul Salo (joint injury) UC
Pere Santamaria (diabetes) UC
Yves Sauvé (vision) UA
Andrew Simmonds (cell growth) UA
Nicholas Touret (immune system) UA
Ray Turner (brain) UC
Sunita Vohra
(complementary and
alternative therapies) UA
Sam Weiss (brain) UC
Jun Yan (hearing) UC
Robin Yates (immune system) UC
Xi-Long Zheng (blood vessels) UC
David Zygun (brain injury) UC

*UA means University of Alberta
*UC means University of Calgary
*UL means University of Lethbridge
*ACB means Alberta Cancer Board
*CHA means Capital Health Authority

For more information about these awards,
and for general and funding information on
AHFMR, please call (780) 423-5727,
e-mail: ahfmrinfo@ahfmr.ab.ca or
write us at:

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ROSSDALE, LA CAILLE, FORMER SHOW SUITE - (98 Ave & 93 St). Choice of 2 units available. Lovely 3 storey townhouse with two side x side underground heated parking stalls. This home is still in beautiful show suite condition. 3rd floor theatre room and office w/ balcony, two second floor bedrooms with ensuite, walk-in closets & balconies. Main floor living room, dining nook, spacious kitchen and large peninsula. Air-conditioned, alarm system with cameras. Call JANET FRASER, (780) 441-6441, jennfra@interbaun.com, Gordon W. R. King & Assoc. Real Estate Corp.

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WANTED IMMEDIATELY HOME FOR RENT IN MATURE AREA – such as Glenora, Crestwood, Valleyview, Laurier, Parkview. International executive family with three children requires a 4-5 bedroom home to rent for 2-3 years. They will pay above market rent in the range of 3,000.00/ mth. Furniture would be an advantage as well. For details call Janet Fraser at (780) 441-6441. Gordon W R King & Assoc real Estate.

MISCELLANEOUS

PUBLIC LECTURE ON ENERGY PSYCHOLOGY – Dr. David Gruder, founder of the Association of Comprehensive Energy Psychology will present on this newly emerging family of mind/body methods. Energy Psychology methods have shown effectiveness in reducing psychological symptoms

and in enhancing personal success in areas such as academics and sports. Milner Library, April 24, 7:30 pm. Tickets \$10/\$12 door. Contact (780) 489-1653 or energy.therapies@shaw.ca

SERVICES

TECH VERBATIM EDITING, on campus. APA, Chicago, Hart's, MLA, Turabian; medical terminology. Member, Editors' Association of Canada. Donna (780) 465-3753 verbatimedit@shaw.ca

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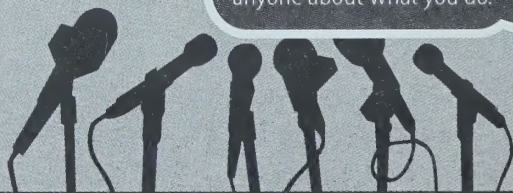
Multiple sclerosis
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Sinusitis & Rhinitis/Allergies
Headaches & TMJ syndrome
Acne/Eczema/Psoriasis & more!

Patient Testimonials:

- "Near half our staffs have been in your clinic"— A staff of U of A Medicine department.
- "You helped me lost 35 lbs. & my blood pressure reduced from 180/110 to 125/85. My 20 yrs neck & shoulder pain was gone."— A senior staff of U of A.
- "I had constant shoulder & back pain for 5 years since the car accident until I had 4 treatments from you. It's really amazing!"— A Director of U of A

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MEDIA WORKSHOP

The University of Alberta and Alberta Ingenuity invite you to a media and communications training workshop for researchers on April 8.

The workshop will bring together some of Edmonton's top journalists to talk about what they need from you, so you can advance your work and participate in the big conversations on the shape of things to come. The workshop will also help you learn how to talk to others outside of your labs, including potential partners, funders, students — and others. Edmonton Journal culture columnist Todd Babiak will facilitate the workshop and a U of A media relations consultant will be on hand to provide a primer on how to access media resources on campus.

WHEN:
Tuesday, April 8, 4 PM to 6 PM

WHERE:
University of Alberta
Stollery Executive Development Centre
Business Building, Room 5-40A/B

FOR MORE INFORMATION:
sandra.robertson@albertaingenuity.ca

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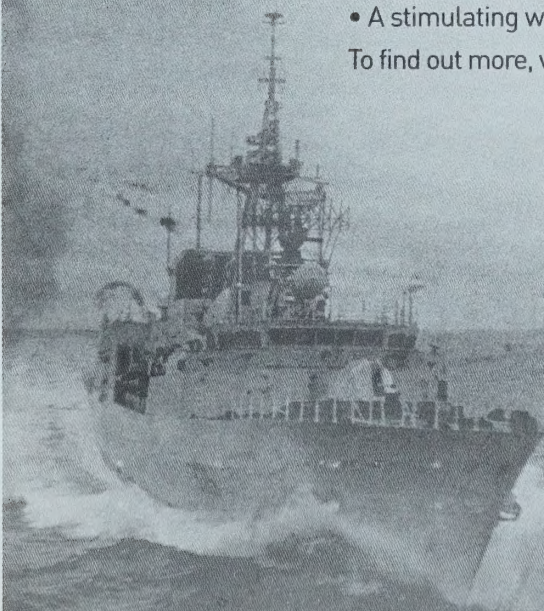
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gold *again*

Great goaltending, smart plays and timely goals earned the Golden Bears their 13th national hockey championship last weekend – more than any other university team in the country.

Outshot 42-25 by the University of New Brunswick Varsity Reds, the Golden Bears benefitted from a stellar performance by goalie Aaron Sorochoan, named Alberta player of the game.

Sorochoan made crucial second-period saves on a breakaway from centre ice with 14 minutes left, and on a two-on-one with 5:30 left, during an Bears power play. Sorochoan came up big again in the third frame when he juggled a deflected puck away from the open cage, then extended his left pad to pilfer Robert Pearce of Fredericton.

The Bears battled back from one-goal deficits twice, before Ian McDonald scored the game winner with eight minutes and 27 seconds left in the game.

"I'm really proud of these guys. This is an incredible feeling obviously," said Bears head coach Eric Thurston, who was leading his troops to a second title in three seasons behind the bench.

This is the sixth time Thurston has been a member of a University Cup championship team with the U of A. He won his first title as a player in 1985-86 and was an assistant coach with Rob Daum for three titles in 1999, 2000 and 2005, before winning two titles as head coach in 2006 and 2008. ■



Clockwise from top left: Bears captain Harlan Anderson hoists the hardware; the team celebrates a record 13th national title; Aaron Sorochoan makes one of many spectacular saves; Tim Krymusa evens the score.

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